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TITLE: Co-extrudates of polypropylene with polyethylene  
terephthalate - useful as packaging or oriented film  
combining properties of polymers and opt. with  
co-polyester heat-seal layer

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ABSTRACTED-PUB-NO: RD 306033A

BASIC-ABSTRACT:

Structures are disclosed in which polypropylene is co-extruded with polyethylene terephthalate to combine the temp. resistance, moisture barrier and grease resistance properties of the PP with gas barrier, aroma/flavour barrier, chemical resistance and toughness properties.

An amorphous copolyester of ethylene-1,4- cyclohexylene-dimethylene terephthalate (CHDM-modified PET) or a low Tg slow crystallising copolyester based on terephthalic acid, ethylene glycol and diethylene glycol (DEG-modified PET) can be present as a heat seal layer.

USE/ADVANTAGE - The co-extruded structures are useful in sheeting applications, e.g., in food packaging. Oriented films can also be made. The presence of the PET layer also imparts improved vacuum thermoforming properties to the PP, allowing cups or microwavable trays to be formed. The CHDM- and DEG-modified PETs (e.g., Kodaband Copolyester 5116 (RTM)) can be substd. for the PET to provide the above-mentioned benefits as well as providing heat-sealability.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: CO EXTRUDE POLYPROPYLENE POLYETHYLENE TEREPHTHALATE  
USEFUL PACKAGE  
ORIENT FILM COMBINATION PROPERTIES POLYMER OPTION CO POLYESTER  
HEAT  
SEAL LAYER